

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**
(Use several sheets if necessary)

Docket Number (Optional)
KVC-037.01 (04607-3701)

Application Number
09 921,383

Applicant
Bennett et al

Filing Date
August 2, 2001

Group Art Unit
2877

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTL	AB	4,571,650	2/18/86	Ojima et al.		
PTL	AC	4,603,931	08/05/86	Ruffman		
PTL	AD	4,615,582	10/07/86	Lefevre et al		
PTL	AE	4,630,229	12/16/86	D'Hondt		
PTL	AF	4,630,890	12/23/86	Ashkin et al		
PTL	AG	4,637,722	1/20/87	Kim		
PTL	AH	4,668,264	05/26/87	Dyott		
PTL	AI	4,669,814	06/02/87	Dyott		
PTL	AJ	4,697,876	10/06/87	Dyott		
PTL	AK	4,712,866	12/15/87	Dyott		
PTL	AL	4,733,938	03/29/88	Lefevre et al		

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
PTL	AM	DE 33 05 104 A1	16 Aug 84	German			X
PTL	AN	FR 2 535 463A	18 May 84	France			
PTL	AO	DE 36 15 305 A1	12 Nov. 87	German			X
PTL	AP	DE 37 42 201 A1	22 June 89	Germany	X		
PTL	AQ	EP 0 551 874 A2	21 Jul 93	LPO	X		X
PTL	AR	EP 0 586 242 A1	9 Mar. 94	EPO	X		

OTHER DOCUMENTS

(Including Author, Title, Date Pertinent Pages Etc.)

PTL	AS	Alekseev et al; "Fiber Optic Gyroscope With Suppression of Excess Noise From the Radiation Source", Technical Physical Letters, 24(9): 719-721, (September 1998)
PTL	AT	Blake et al., "In-Line Sagnac Interferometer Current Sensor," IEEE, pp. 116-121 (1995).
PTL	AU	Blake and Szafraniec, "Random Noise in PM and Depolarized Fiber Gyros", OSA Symposium Proceedings, 1997, OWB2, pp. 122-125.

EXAMINER

PATRICK CANNOLLY

DATE CONSIDERED

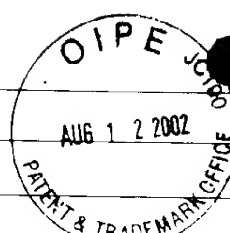
4.1.2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
KVC-037 01 (04607-3701)Applicant
Bennett et alFiling Date
August 2, 2001Application Number
09 921,383Group Art Unit
2877**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJC	AV	4,740,085	Lim		—	
PJC	AW	4,755,021	Dyott		—	
PJC	AX	4,765,739	Koizumi et al		—	
PJC	AY	4,776,700	Frigo		—	
PJC	AZ	4,796,993	Sonobe et al.		—	
PJC	BA	4,815,817	Levinson		—	
PJC	BB	4,842,409	Arditty et al.		—	
PJC	BC	4,848,910	Dupraz		—	
PJC	BD	4,883,358	Okada		—	
PJC	BE	4,887,900	Hall		—	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
PJC	BF	JP 07209398	Japan		—	English Abstract	
PJC	BG	EP 0 686 867 A1	European Patent Application		—		X
PJC	BH	EP 0 722 081 A2	European Patent Application		—		
PJC	BI	EP 856 737 A1	EPO		—		
PJC	BJ	EP 0 871 009 A1	EPO		—		
PJC	BK	EP 0 872 756 A1	European Patent Application		—		
PJC	BL	WO98/58268 A	PCT (corresponds to 6,023,331)		—		
PJC	BM	WO00/36425	PCT		—		

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

PJC	BN	Bohnert. et al., "Field Test of Interferometric Optical Fiber High-Voltage and Current Sensors" <i>SPIE</i> , Vol. 2360 pp. 16-19 (Feb. 1994).
PJC	BO	Bohnert. et al., "Temperature and Vibration Insensitive Fiber-Optic Current Sensor" <i>ABB</i> , Vol. 2360 pp 336-339 (Feb. 1994).
EXAMINER	P. J. M. K. CONNOLLY DATE CONSIDERED 04-01-2003	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION***(Use several sheets if necessary)*Docket Number (Optional)
KVC-037-01 (046073701)Applicant
Bennett et al.Filing Date
August 2, 2001Application Number
09 921,383Group Art Unit
2877**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJC	BP	4,943,132	07/24/90	Huang	—	
PJC	BQ	5,033,854	07/23/91	Matthews et al.	—	
PJC	BR	5,048,962	09/17/91	Kurokawa et al.	—	
PJC	BS	5,074,665	12/24/91	Huang et al.	—	
PJC	BT	5,080,489	01/14/92	Nishikawa et al.	—	
PJC	BU	5,106,193	04/21/92	Fesler et al.	—	
PJC	BV	5,133,600	07/28/92	Schröder	—	
PJC	BW	5,135,555	08/04/92	Coyle, Jr. et al.	—	
PJC	BX	5,289,257	02/22/94	Kurokawa et al.	—	
PJC	BY	5,289,258	02/22/94	Szafraniec, et al.	—	
PJC	BZ	5,331,404	07/19/94	Moeller et al.	—	
PJC	CA	5,351,123	09/27/94	Spahlinger	—	
PJC	CB	5,359,413	10/25/94	Chang et al.	—	
PJC	CC	5,365,338	11/15/94	Bramson	—	
PJC	CD	5,412,471	05/02/95	Tada et al.	—	
PJC	CE	5,459,575	10/17/95	Malvern	—	
PJC	CF	5,469,257	11/21/95	Blake et al.	—	
PJC	CG	5,469,267	11/21/95	Wang	—	

OTHER DOCUMENTS*(Including Author, Title, Date, Pertinent Pages Etc.)*

PJC	CH	Burns, et al., "Excess Noise in Fiber Gyroscope Sources", IEEE Photonics Technology Letter, Vol 2, No. 8, August 1990, pp. 606-608.
PJC	CI	Clark et al., "Application of a PLL and ALL Noise Reduction Process in Optical Sensing System," IEEE Transactions on Industrial Electronics, Vol. 44, No. 1, February 1997, pp. 136-138
PJC	CJ	Dagenais et al., "Low-Frequency Intensity Noise Reduction for Fiber-Optic Sensor Applications," Optical Fiber Sensors Conference, 1992, January 29-31, pp. 177-180

EXAMINER

DATE CONSIDERED

PATRICK CONNELLY

04 01 2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
KVC-037 01 (04607-3701)

AUG 1 2 2002

Application Number
09 921,383Applicant
Bennett et alFiling Date
August 2, 2001Group Art Unit
2877**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJC	CK	5,471,301	11/28/95	Kumagai et al	—	
PJC	CL	5,493,396	02/20/96	Sewell	—	
PJC	CM	5,500,909	03/19/96	Meier	—	
PJC	CN	5,504,684	04/02/96	Lau et al.	—	
PJC	CO	5,552,887	09/03/96	Dyott	—	
PJC	CP	5,559,908	09/24/96	August, et al	—	
PJC	CQ	5,654,906	08/05/97	Youngquist	—	
PJC	CR	5,655,035	08/05/97	Burmenko	—	
PJC	CS	5,682,241	10/28/97	Mark et al.	—	
PJC	CT	5,701,177	12/23/97	Kumagai et al.	—	
PJC	CU	5,701,376	12/23/97	Shirasaki	—	
PJC	CV	5,767,509	06/16/98	Cardova et al.	—	
PJC	CW	5,781,675	07/14/98	Tseng et al.	—	
PJC	CX	5,854,864	12/29/98	Knoesen et al.	—	
PJC	CY	5,898,496	04/27/99	Huang et al.	—	
PJC	CZ	5,946,097	08/31/99	Sanders et al.	—	
PJC	DA	5,987,195	11/16/99	Blake	—	
PJC	DB	6,025,915	02/15/00	Michal, et al	—	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

PJC	DC	Dupraz, J.P., "Fiber-Optic Interferometers for Current Measurement: Principles and Technology", Alsthom Review No. 9: 29-44 (December 1987).
PJC	DD	Frosio, G. and Dändliker, "Reciprocal Reflection Interferometer for a Fiber-Optic Faraday Current Sensor", Applied Optics 33 (25): 6111-6122 (September 1, 1994).
PJC	DE	Gronau Yuval et al.; "Digital Signal Processing For An Open-Loop Fiber-Optic Gyroscope", Applied Optics, Optical Society of America, Washington, U.S., vol. 34, no. 25, 1 September 1995, pgs. 5849-5853

EXAMINER	PATRICK CONNELLY	DATE CONSIDERED	09.01.2003
----------	------------------	-----------------	------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)
KVC-037 01 (04607-3701)Applicant
Bennett et alFiling Date
August 2, 2001

AUG 1 2 2002

Application Number
09 921,383Group Art Unit
2877**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PXL	DF	6,047,095	04/04/00	Knoesen et al	---	
PXL	DG	6,075,915	6/13/00	Koops et al	---	
PIL	DH	6,148,131	11/14/00	Geertman	---	
PIL	DI	6,163,632	12/19/00	Rickman et al.	---	
PXL	DJ	6,185,033	02/06/01	Bose et al.	---	
PXL	DK	6,208,775	03/27/01	Dyott	---	
PIL	DL	6,233,371	05/15/01	Kim et al.	---	
PIL	DM	6,301,400	10/09/01	Sanders	---	
PJL	DN	6,351,310	02/26/02	Emge et al.	---	
PJL	DO	6,370,289	04/09/02	Bennett	---	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

PXL	DP	Killian M. Kevin; "Pointing Grade Fiber Optic Gyroscope", IEEE AES Systems Magazine, pp. 6-10 (July 1994)
PXL	DQ	LaViolette and Bossler; "Phase Modulation Control for An Interferometric Fiber Optic Gyroscope", IEEE Plan 90, Position Location and Navigation Symposium, Las Vegas, (March 20-23, 1990)
PXL	DR	Lefevre, "The Fiber-Optic Gyroscope", Artech House, Boston, pp. 29-30 (1993)
PXL	DS	McCallion and Shimazu; "Side-Polished Fiber Provides Functionality and Transparency", Laser Focus World, 34 (9): S19- S24, (September 1, 1998)
PXL	DT	Moeller and Burns, "1.06 μ m All-fiber Gyroscope with Noise Subtraction, Proceedings of the Conference on Optical Fiber Sensors", IEEE-OSA, Monterey, CA. 1992, pp. 82-85
PXL	DU	Moeller and Burns, "Observation of Thermal Noise in a Dynamically Biased Fiber-Optic Gyro", Optical Letters, 1996, Vol. 21, pp. 171-173.

EXAMINER

PATRICK CONNELLY

DATE CONSIDERED

01-01-2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

**COPY OF PAPER
ORIGINALLY FILED**

Docket Number (Optional)

KVC-037.01

Application Number

09/921,383

Applicant

Bennett, et al.

Filing Date

August 2, 2001

Group Art Unit

2877

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTL	AA 6,023,331	02/08/00	Blake, et al.	356	345 477	06/19/97
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

	AQ
	AR

EXAMINER

DATE CONSIDERED

PATRICK CONNELLY

04.01.2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE